

Requirements Min. Hours Required

CORE CURRICULUM

Core courses must be chosen from approved lists. bit.ly/1d6oP6l

First Year Signature Course	3
English Composition	3
Humanities	3
American & Texas Government	6
American History	6
Social & Behavioral Science	3
Mathematics (Fulfilled by course in major)	0
Science & Technology-I (Fulfilled by courses in major)	0
Science & Technology-II (Fulfilled by courses in major)	0
Visual & Performing Arts	3
Writing Intensive Course	3

FOREIGN LANGUAGE

1 of the following:	6–12
a. Beginning level proficiency in a foreign language	
b. 1 course in a foreign language & 1 three-hour course in the culture of the same language area	
c. 2 three-hour courses from the same foreign culture area	

Foreign culture courses selected from approved lists maintained by the college. [Bit.ly/19Ao6pc](https://bit.ly/19Ao6pc)

INTRODUCTORY MATHEMATICS & SCIENCE

M 408C & 408D or 408N, 408S, & 408M	8–12
PHY 301 & 101L*, 316 & 116L*, and 315 & 115L	12
* PHY 303K & 105M and 303L & 105N, substitute for PHY 301 & 101L and 316 & 116L. However, they are not preferred preparation for PHY 315 & 115L.	
CH 301 or 301C	3
CH 302 or 302C	3
Note: Introductory science is substantially different for Option 6	

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OPTION 2: COMPUTATION

Designed to provide the necessary foundation and hands-on skill in computation for the student who plans a career or further study in computational physics or computer science. Students who complete this option may simultaneously fulfill some of the requirements of the Scientific Computation and Data Sciences Certificate.

Additional science	6
6 hours in BIO, GEO, or AST Note: course that cannot count toward major requirements in department that offers it cannot be applied.	
Upper-division mathematics and statistics and data sciences:	14
M 427J or 427K M 427L 6 additional hours of upper-division Mathematics or SDS SDS 329C and M 362K are recommended	
Upper-division physics:	24
PHY 355 Modern Physics & Thermodynamics PHY 338K Electronic Techniques PHY 353L Modern Physics Laboratory PHY 336K Classical Dynamics PHY 352K Classical Electrodynamics I PHY 329 Introduction to Computational Physics PHY 373 Quantum Physics I: Foundations PHY 369 Thermodynamics & Statistical Mechanics (373 is prerequisite or co-requisite)	
1 scientific computation specialization, 12 hours total:	12
A. 1st choice CS 303E, and CS 313E or SDS 322 2 courses from 2 areas listed below: Numerical methods: M 348; SDS 335; CS 323E, 323H, 367; CHE 348 Statistical Methods: M 358K, 378K; BME 335 Other computing topics: M 346, 362M, 368K, 372K, 376C; CS 324E, 327E, 329E, 377; ME 367S B. 2nd choice 12 hours from: EE 306, 312, 316, 319K, and 422C	

ELECTIVES

Enough elective hours to reach 126 total	VARY
(The number of elective hours needed may vary depending on course selections.)	

ADDITIONAL GRADUATION REQUIREMENTS

- ☐ Minimum 21 upper-division hours in residence, including 12 in Physics
- ☐ Minimum 60 hours in residence overall
- ☐ Minimum 36 upper-division hours
- ☐ 126 hours total overall
- ☐ Minimum grade of C- & minimum 2.0 GPA in all Mathematics & Natural Sciences courses
- ☐ Minimum UT-Austin Grade Point Average of 2.0
- ☐ Must apply to graduate during final semester
- ☐ 2026-28 Catalog expires August 2034